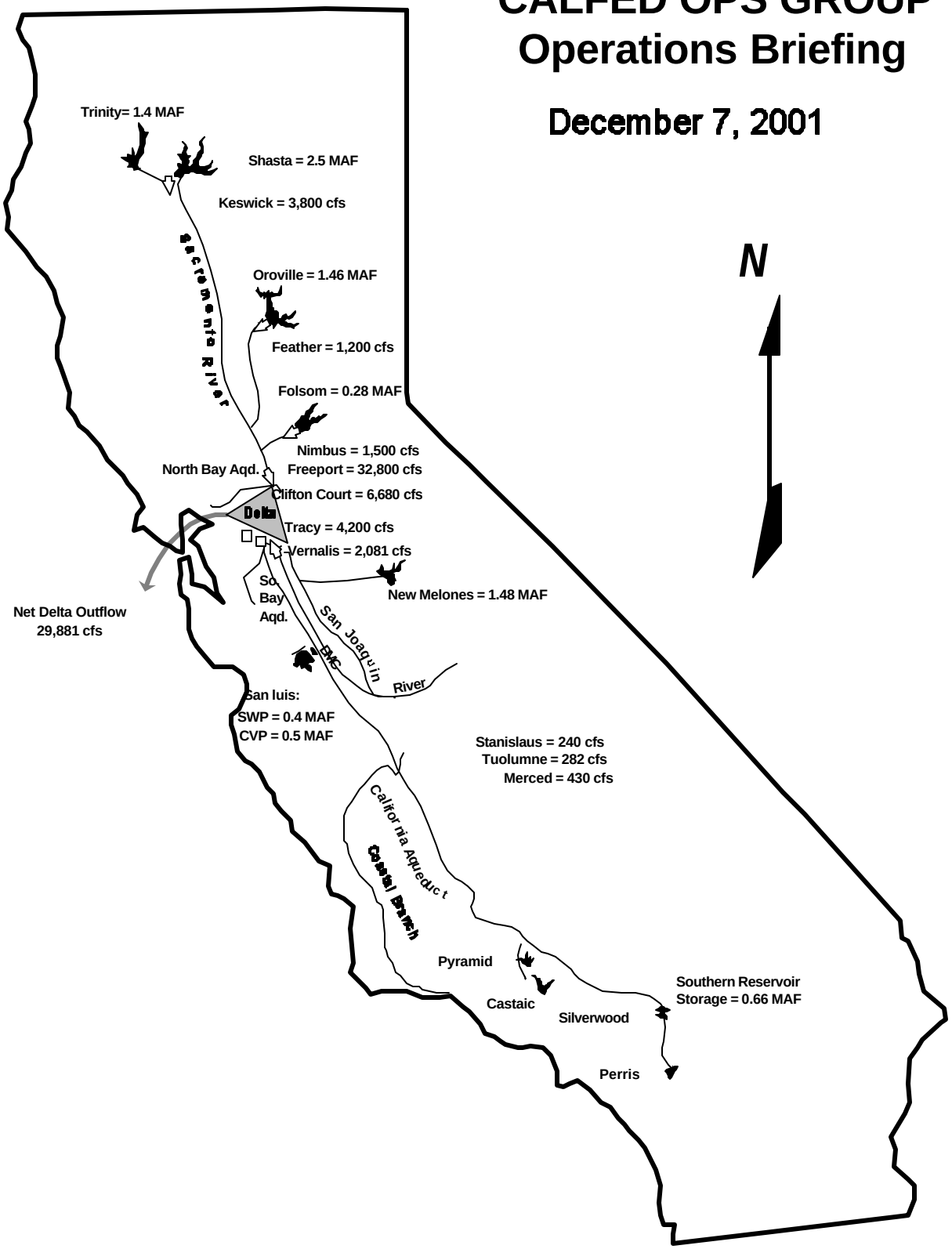
CALFED OPS GROUP
Operations Briefing

December 7, 2001



CURRENT SWP/CVP OPERATIONAL STATUS

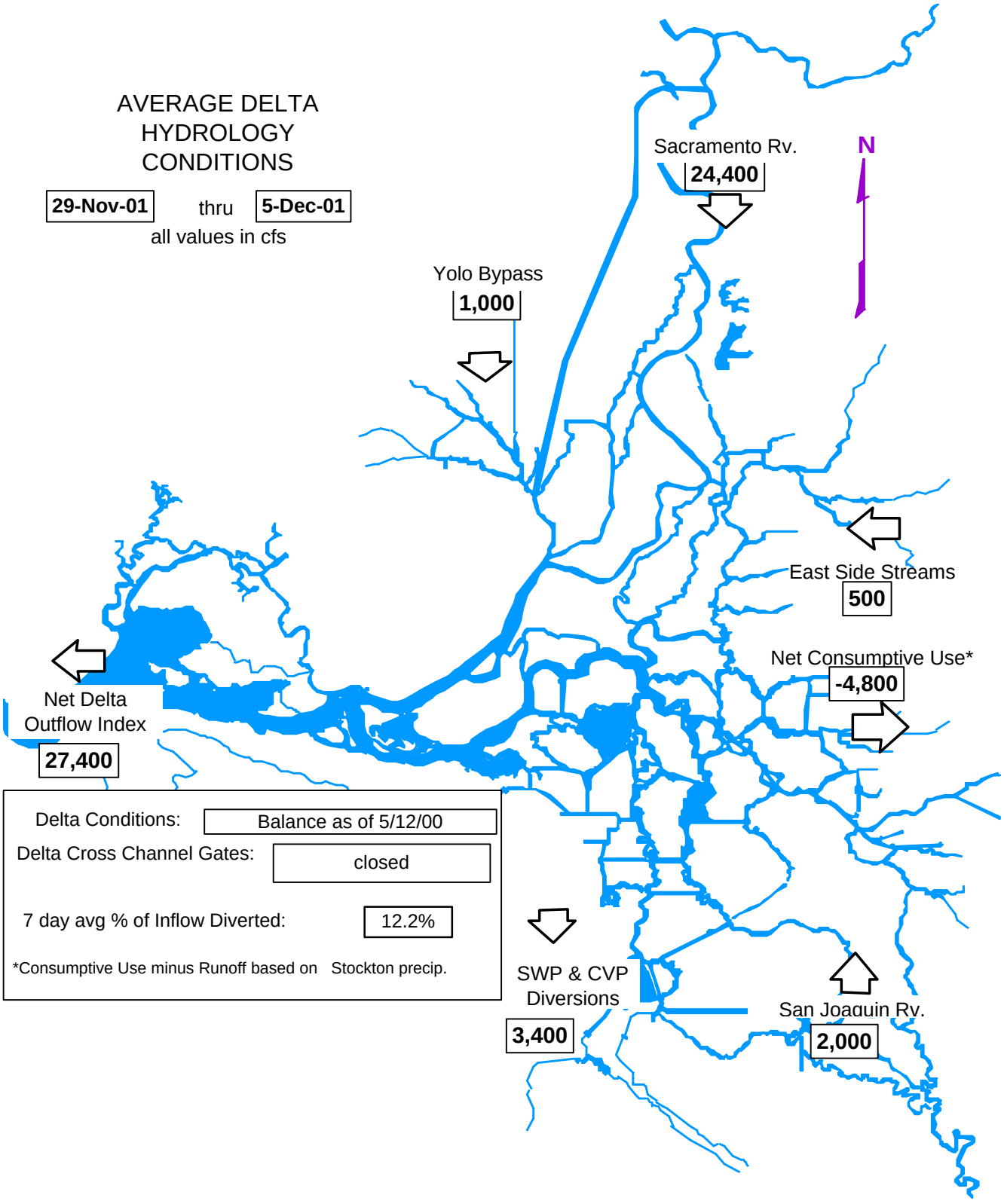
DATA AS OF
December 6, 2001

O&M, OSC

AVERAGE DELTA HYDROLOGY CONDITIONS

29-Nov-01 thru **5-Dec-01**

all values in cfs



Delta Conditions:	Balance as of 5/12/00
Delta Cross Channel Gates:	closed
7 day avg % of Inflow Diverted:	12.2%

*Consumptive Use minus Runoff based on Stockton precip.

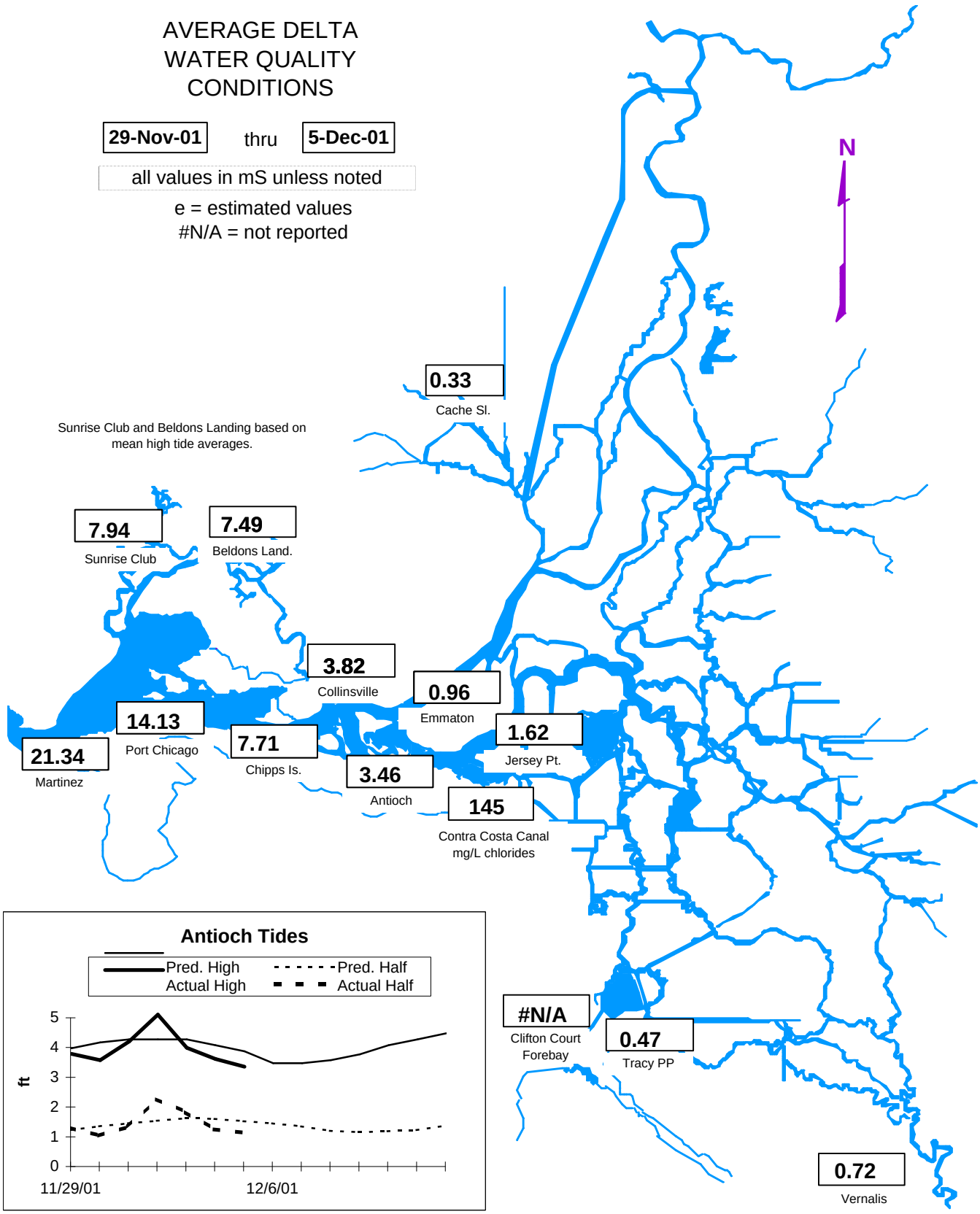
AVERAGE DELTA WATER QUALITY CONDITIONS

29-Nov-01 thru **5-Dec-01**

all values in mS unless noted

e = estimated values

#N/A = not reported



DRAFT

Bay-Delta Standards

Contained in D-1641

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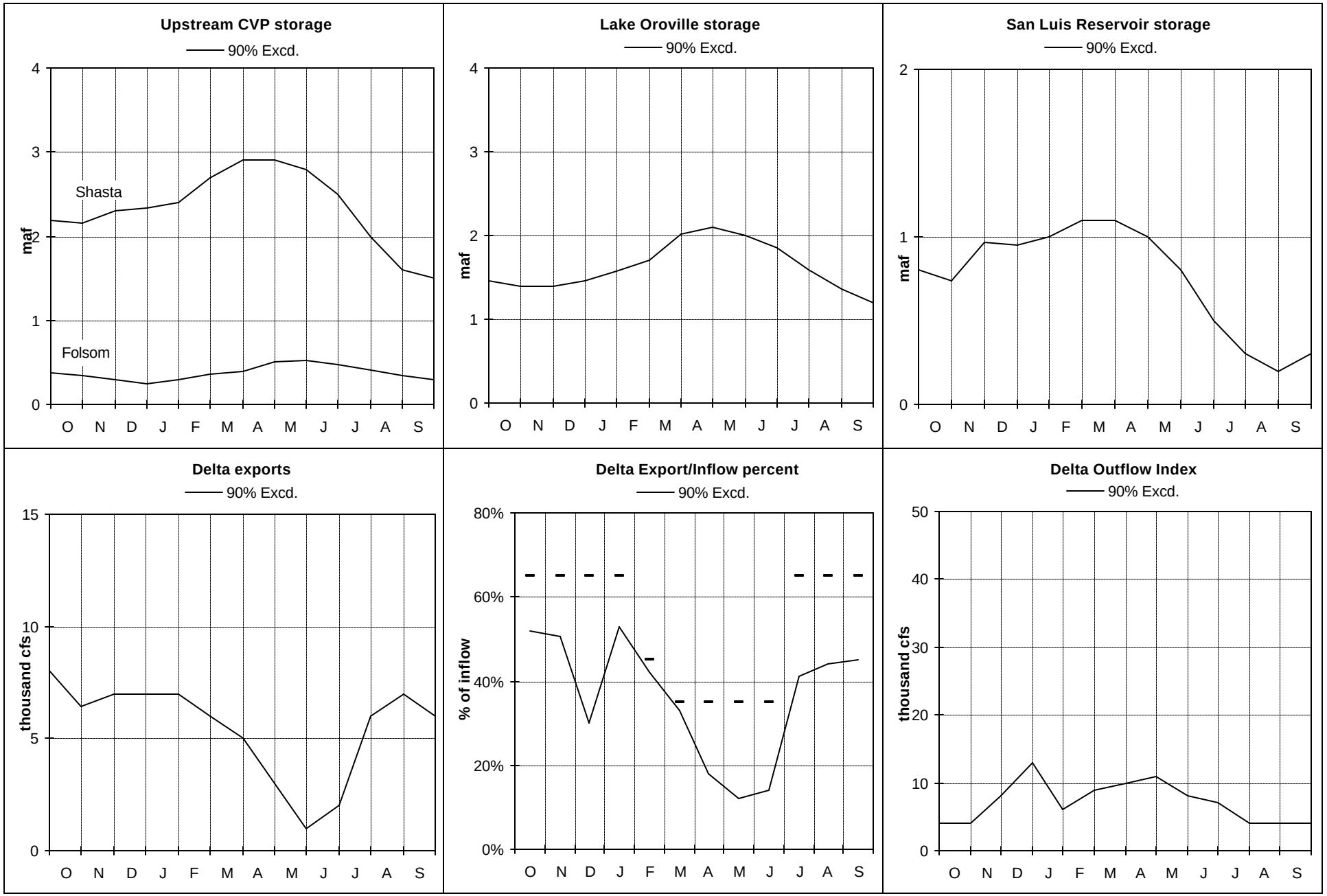
CRITERIA	Nov 01	Dec 01	Jan 02
FLOW/OPERATIONAL			
• Fish and Wildlife			
SWP/CVP Export Limits			
Export/Inflow Ratio	65%		
Minimum Outflow - mon.	4500 cfs	4500 cfs	4500 cfs
- 7 day avg.	3500 cfs	3500 cfs	3500 cfs
Striped Bass Survival			
Suisun Marsh			
Habitat Protection Outflow, X2			
River Flows:			
@ Rio Vista - min. mon. avg.	4500 cfs	4500 cfs	
- 7 day average	3500 cfs	3500 cfs	
@ Vernalis: Base -min. mon. avg.			
- 7 day average			
Pulse			
Delta Cross Channel Gates	Conditional: For the Nov-Jan period, DCC gates may be closed for up to a total of 45 days		
WATER QUALITY STANDARDS			
• Municipal and Industrial			
All Export Locations	<= 250 mg/l Cl		
Contra Costa Canal	<= 150 mg/l for 165 days (Days have been met)		
• Agriculture			
Southern Delta	30-day running average EC <= 1.0 mS		
• Fish and Wildlife			
Suisun Marsh Salinity	15.5 mS/cm for Eastern / 16.5 for Western stations	15.5 mS/cm	12.5 mS/cm

Water Year Classification: (May 1 forecast)
SRI (40-30-30 @ 50%) =5.9 (Dry)
SJV (60-20-20 @75%) = 2.3 (Dry)

Preliminary, Subject to Revision

SWP & CVP WY 2001-2002 Forecasted Operations.

Based on USBR 10/23 forecast



Based on 10/2001USBR operations studies. Flows are monthly averages.

WY 2000/2001 EWA Accounting Summary

EWA NOD and SOD Storage

1	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
NOD [0]	10		50							11	25	9	105
SOD													

EWA Asset Acquisition in SWP San Luis[1]

2	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
E/I Relaxation	2												2
EWA share of SWP gain			11	8	1	1	1				4	19	46
Project Pumping to reduce EWA debt													0
JPOD using excess flows													0
JPOD using excess NOD storage													0
Xfer NOD purchases - Sacramento River [2]										43 [3]		9 [4]	51
Xfer NOD purchases - San Joaquin River [2]													0
SOD SWP surface purchases						44 [5]		31 [6]	10 [6]	3 [6]	18 [6]	21 [7]	127
Groundwater pumping SOD													0
Exchange from CVP to SWP in SL						72							72
Total Monthly EWA Assets	**2**	**0**	**11**	**8**	**1**	**117**	**1**	**31**	**10**	**45**	**22**	**49**	**298**

EWA Asset Acquisition in CVP San Luis

3	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
E/I Relaxation													0
Project Pumping to reduce EWA debt													0
JPOD using excess flows													0
JPOD using excess NOD storage													0
Xfer NOD purchases - Sacramento River [2]													0
Xfer NOD purchases - San Joaquin River [2]													0
SOD federal surface purchases	72												72
Groundwater pumping													0
Exchange from SWP to CVP in SL						-72							-72
Total Monthly EWA Assets	**72**	**0**	**0**	**0**	**0**	**-72**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

EWA Expenditures at the Export Pumps

4	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
SWP export cuts [8]				-69	-69	-65	-29	-49	-9				-290
CVP export cuts													0
Total Expenditures	**0**	**0**	**0**	**-69**	**-69**	**-65**	**-29**	**-49**	**-9**	**0**	**0**	**0**	**-290**

EWA Monthly Incremental Storage Changes

5	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
SWP in SL (without Source Shift)	2	0	11	-61	-68	52	-27	-18	1	45	22	49	7
CVP in SL	72	0	0	0	0	-72	0	0	0	0	0	0	0
NOD Storage	10	0	50	0	0	0	0	0	0	-39	25	-1	45
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	**84**	**0**	**61**	**-61**	**-68**	**-20**	**-27**	**-18**	**1**	**6**	**47**	**48**	**52**

EWA Storage Balance at Various Sites

6	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
SWP in SL (without Source Shift)	2	2	13	-48	-116	-64	-91	-109	-108	-63	-41	7
CVP SL	72	72	72	72	72	0	0	0	0	0	0	0
NOD Storage	10	10	60	60	60	60	60	60	60	21	46	45
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0
EWA Asset Balance	**84**	**84**	**146**	**84**	**16**	**-4**	**-31**	**-49**	**-48**	**-42**	**5**	**52**

San Luis Reservoir Storage Conditions

7	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Storage (base case)	978	1225	1385	1572	1841	2012	1952	1553	1091	843	751	793
Encroachment						15 [9]						
Total Storage (EWA case)	1052	1299	1470	1596	1797	1963	1861	1443	983	780	710	801
MWD Source Shifting						15	35					-21
Storage (with MWD source shifting) [6]	**1052**	**1299**	**1470**	**1596**	**1797**	**1978**	**1911**	**1493**	**1033**	**830**	**760**	**830**

[0] NOD Storage = 10(OWID) + 50(YCWA) + 20(PCWA) + 25(MID)

[1] Aqueduct conveyance and evaporation losses are not included.

[2] A 15% carriage loss applies to water transfers from the Sacramento River (i.e.: YCWA, OWID and PCWA); a 10% conveyance loss applies to water transfers from the San Joaquin River (i.e.: MID).

[3] YCWA Transfer

[4] OWID Transfer

[5] SOD 2000 SWP surface purchases in March = 15 (Westside) + 19 (Rosedale) + 10 (Arvin Edison)

[6] SOD 2001 SWP pre lowpoint deliveries = 20(KCWA/Nickel LLC/ID4) + 23.7(Buena Vista) + 18(Santa Clara)

[7] SOD 2001 SWP post lowpoint deliveries = 21 (Westside)

[8] 42 TAF has been expended for VAMP (8 TAF in April and 34 TAF in May).

[9] CVP water was encroached in the state's share of San Luis.